

Axiom™

RC-2 READER CONTROLLER



The RC-2 Reader Controller is part of the Axiom line of access control products from RBH. Its versatile design features take care of present and future needs with ease and efficiency.

The RC-2 is one of the most rugged and reliable reader controllers on the market, with a multitude of built-in features found only in high-end custom designed systems until now.

- **Multiple built-in, regulated power supplies...**
 - Independently fused electric lock, reader, auxiliary battery and AC Power, complete with fuse status indication and monitoring.
- **Supports fully supervised RS485 communications...**
 - Dual RS485 ports designed to ensure data communications integrity in the event of wiring short circuit or cut cable.
- **Supports eight independent inputs with multi-level supervision...**
 - All inputs are fully programmable and can be configured for one, two, or no end-of-line resistor supervision. This allows the inputs to be used for any level of high security.
- **Supports two readers of ANY technology...**
 - Compatible systems include Proximity, Mag Stripe, Bar Code, Barium Ferrite, RF, Wiegand & Biometric.
- **Built-in lightning protection**
- **Plug-in terminal connectors**
- **Silk screened terminal legend**
- **26 on-board diagnostic LEDs**
- **Field configurable I/Os**
- **Built-in fire signal supervision**
- **Built-in cabinet tamper**
- **Rugged metal case**

Power Requirements : 1 x 16.5VAC 40VA transfmr. - controller & aux

Door Lock Power : 1 x 12/18VAC 80VA transfmr. for up to 3A

Current Consumption : 400mA max (controller)

Battery Charging Output :

- Charging voltage 13.8V regulated
- Built-in deep discharge protection
- Dynamic load test

Recommended Back-up Battery : 12V, 7AH lead acid or gel cell

Power Output to Reader :

- 12V at 1A (fused)
- 5V at 1A (fused)
- Aux power: 12V at 1A (fused)

Fuses (Supervised)	Battery : 3A
	Reader Power : 1A
	Auxiliary Power : 1A
	AC Power : 3A
	Lock Power : 3A

Reader Connection :

- Supports up to 2 readers (multiple format)
- On-board reader tamper monitoring
- Supports red and green reader LED outputs
- Supports reader audible

Cable Type : 20 - 22AWG 6 or 8 conductor stranded shielded

Cable Distance : Max 500ft (150m) (20AWG)

Outputs :

- 4 x Form C relays, SPDT 2A @ 30VDC, dry contacts
- 4 x electronic drivers, (max 100mA)

Inputs :

- 8 x fully supervised circuits, 1, 2 or no EOL resistor (1K)
- 1 x dedicated Cabinet Tamper Switch Input
- 1 x dedicated Fire Alarm Input
- Analog loop resistance measurement and reporting

Input/Output	Cable Type : 20-22AWG, 2 conductor
	Cable Distance : Max 1000ft (300m)

Communications	Designation : D-NET
	Speed : 38,400 bits/second
	Ports : 2 x fully supervised RS485 ports
	Circuit type : Ring (short or open circuit protection)
	Cable Type : Shielded twisted pair 20 - 22AWG
	Cable Distance : 3,000ft (1,000m) between devices 15,000ft (4,550m) total

On-Board Diagnostics	Status : 8 x Output Status LEDs
	8 x Input Status LEDs
	1 x Fire Signal Status LED
	Comms : 2 x RX, TX communication LEDs
	1 x Run LED
	Power : 4 x On/Off Status LEDs
	Fuses : 4 x Fuse Blown LEDs

Dimensions : 9.75"H x 6.875"W x 3.25" D (25 x 18 x 10cm)

Operating temperature : 0 to 70°C (35 -150°F)

Operating Humidity : 20 to 80% RH (non-condensing)